# PHILIPS

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# VCR

VIDEO CASSETTE RECORDER

VR 727

PHILIPS

PHILIPS

# OPERATING MANUAL VR 727

## INTRODUCTION

With this Video Cassette Recorder (VCR) you are now the owner of one of the most sophisticated and simple-to-use video recorders on the market.
Naturally, you can't wait to get it going, but, before you do, it's worthwhile taking some time to read through this operating manual. You will learn how to use the video recorder without any problems.
You can practise using the video recorder without any worries because you cannot damage it no matter which buttons you press.

This video recorder employs the VHS cassette standard. We recommend that you use PHILIPS VHS video cassettes to ensure the best possible picture quality from your video recorder.
Use only cassettes of a well-known brand which display the VHS symbol:

VHS
PAL SECAM

This video recorder is equipped with VIDEOplus+ programming. VIDEOplus+ and PlusCode are trademark of Gemstar Development Corp.. VIDEOplus+ system is manufactured under licence from Gemstar Development Corporation.

VIDEOPlus+

This operating manual is printed on chlorine-free paper. This is to help protect our environment.

Used batteries should not be thrown away with ordinary domestic refuse. Deposit old batteries at the relevant collection points.

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## Safety instructions

- The manufacturer cannot be held responsible for any damage which is incurred by not using the video recorder in compliance with the national guarantee conditions or safety instructions.
- First check if your supply voltage is the same as that written on the type plate at the rear of your video recorder.
- Danger - high voltage in this appliance! Do not open! The video recorder does not contain any parts that can be repaired by the user. As long as the video recorder is connected to the mains, there are parts of it still in operation. To switch off the video recorder completely you must disconnect it from the mains.
- Ensure that air can circulate freely through the video recorder's ventilation openings. Do not place the video recorder on soft surfaces.
- Do not place the video recorder close to a source of heat (radiator, etc.).
- Protect this video recorder from rain and damp. Ensure that no objects or liquids enter it. If liquid is spilt into the video recorder, disconnect the video recorder from the mains and consult a qualified service technician.

## Precautions

- Before the video recorder is installed, it should be allowed to acclimatise for at least three hours after unpacking.
  Do not use your video recorder immediately after moving it from a cold to a warm location or vice versa, or under conditions of high humidity.
- Ensure that there is a vertical distance of at least 20 cm between the video recorder and your TV set.
- Do not place the video recorder near appliances generating strong magnetic fields (e.g. motors, loudspeakers and transformers).
- Do not use the video recorder in dusty places or where it may be subject to vibration. During heavy thunderstorms (with lightning) we recommend disconnection from the mains and the aerial.
- Do not put your fingers or any other foreign bodies into the cassette loading slot as this could damage the mechanism. Be careful, particularly with children.
- If you have to transport your video recorder, be sure to remove the video cassette from the cassette loading slot and avoid sudden or violent jolts.

## Important for the United Kingdom

This apparatus is fitted with an approved moulded 13 Amp plug.
To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1363 3A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 3A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

**Note:** The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

**How to connect a plug:**

The wires in the mains lead are coloured in accordance with the following code:

BLUE - "NEUTRAL" ("N")
BROWN - "LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked with the letter 'E" or by the safety earth symbol or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

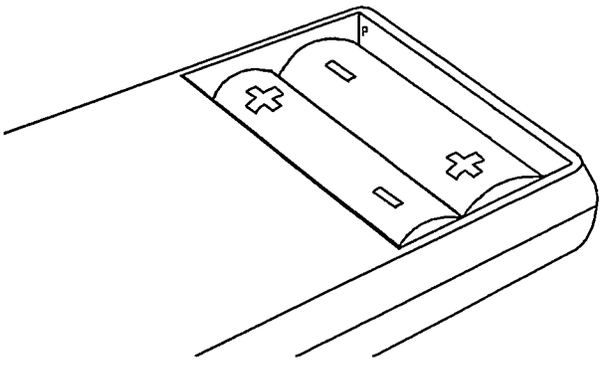
# INSTALLATION: HOW DO I INSTALL THE VIDEO RECORDER?

## Preparing the remote control for use

**How do I insert batteries into the remote control?**

❶ Remove the cover from the back of the remote control.

❷ Insert the batteries as indicated into the battery compartment and close the cover.

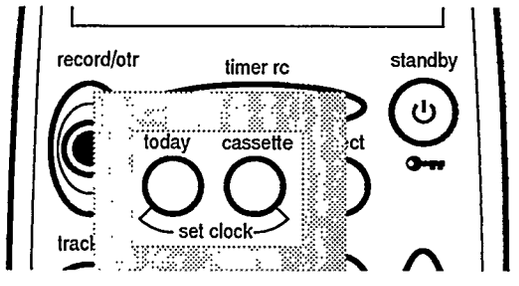


**Note:** Do not use rechargeable batteries in this remote ontrol.

**How do I set the clock on the remote control?**

Should the clock not be correctly adjusted (after having changed the batteries, for example), the data will flash on the remote control display.

❶ Press SET CLOCK (buttons TODAY and CASSETTE together) on the remote control.




The word 'CLOCK' will flash in the remote control display.

❷ Now set the precise time by pressing button + or − or use the digit buttons 0-9. The clock will start again only after step ❸ has been completed.
If you do not wish to change the data displayed, press button STANDBY on the remote control.

❸ Then press SET CLOCK again.

## Connecting to the mains

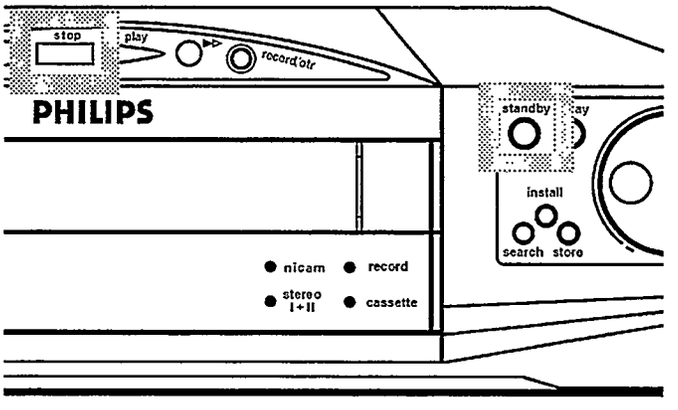
❶ Insert the female plug of the mains cable into the mains socket ~ at the rear of the video recorder.

❷ Insert the plug at the other end of the mains cable into the wall socket.

**Some general notes for subsequent operation:**

• The video recorder should remain connected to the mains at all times to ensure that programmed recordings can be made and that the television works. The power consumption is very low.

• No special button is required to switch on the video recorder. It will switch itself on as soon as a cassette is loaded or when any of the tape transport buttons are pressed (e.g. STOP).



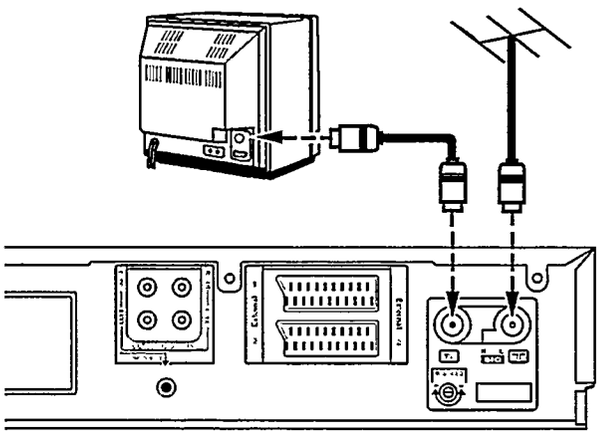

• If you have switched off the video recorder with button STANDBY, the display will show, e.g.:

## Connecting the aerial

Your video recorder is actually a 'TV set without a screen'. This is why you have to connect it to an aerial as well as to the TV set. Only then can you make recordings and play cassettes.

❶ Remove the aerial cable plug from the TV set and insert it into the socket ⊓⊏ at the rear of the video recorder.

❷ Use the aerial cable provided to connect the socket TV on the video recorder to the aerial input socket on your TV set.



Both the TV set and the video recorder are now connected to the aerial.

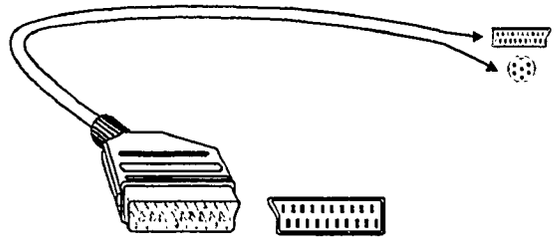
## Connecting to the TV set

The connection to the TV set can be made in **two different ways.**

Whether you choose Method 1 or Method 2 depends on your TV model.

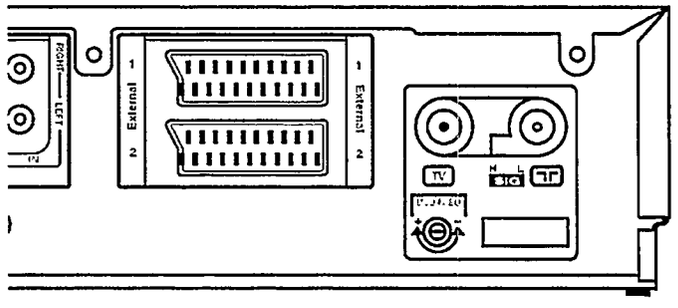
**Method 1:**

If your TV set **has** an AV-Euro-socket (scart-socket) or a DIN AV-socket:



We recommend that you use the AV-Euro-cable (scart-cable) supplied. This will guarantee the **best possible picture and sound quality.**

❶ Use the AV-Euro-cable to connect the TV set to the AV-Euro-socket EXTERNAL 1 on your video recorder.



❷ Switch on the TV set and select the programme number 'AV' (= Audio/Video input) for the video recorder. This is explained in the operating manual for your TV set.

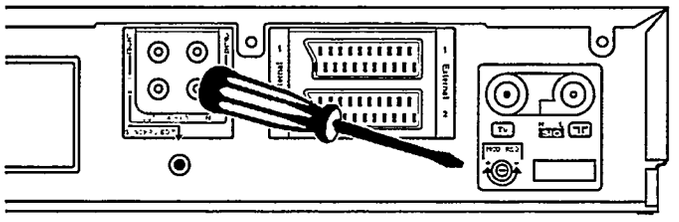
**Important note:** Many modern TV sets **automatically** switch over to the programme number 'AV' during playback on the video recorder. If your TV set does this, you do **not need to select** the programme number on the TV set in the following chapters.

Your video recorder is now fully connected to the TV set.

**Special note:** Your video recorder occupies channel UHF-36 or 37.
However, it is possible that, in your reception area, this channel is already occupied by another TV channel.
In this case you will notice a change in the picture quality on the TV set, e.g. wavy lines in the picture, during **subsequent** use of the video recorder.
You can easily solve this problem as follows:

❸ Switch on the video recorder with button STOP.

❹ Use a small screwdriver to turn the channel control +⏻− at the rear of the video recorder less than half a revolution until the interference has gone.



❺ If the interference cannot be cleared, you will have to switch off the 'modulator'. There must not be a cassette in the video recorder at this moment.
Press buttons PLAY and EJECT simultaneously.
The current position of the switch 'MODUL ON' will be shown in the display. If you press both buttons for five seconds, you switch over to 'MODUL OFF'.
In the same way you can also switch it on again.
**Important:** Only playback with the AV-Euro-cable (= Method 1)is now possible. Playback using the aerial cable (= Method 2) is **no longer** possible.

❻ Switch off the video recorder with button STANDBY.

**Method 2:**

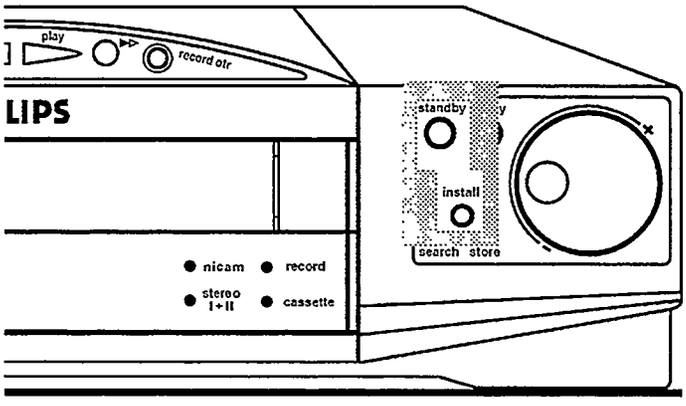
If your TV set **does not have** an AV-Euro-socket:

The **aerial cable which is already connected** will act as the connection between your TV set and the video recorder.

❶ Switch on the TV set and select the programme number reserved for video playback. (This is explained in the operating manual for your TV set).

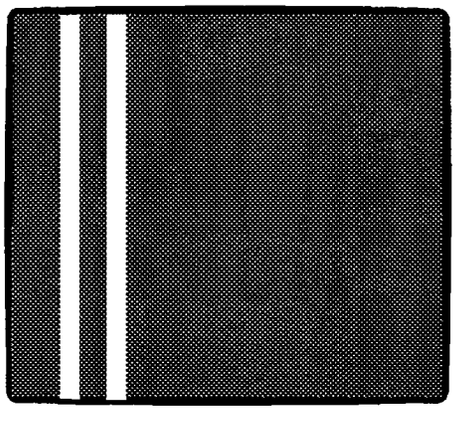
❷ Disconnect the aerial cable from the aerial socket ⊐⊏ of the video recorder so that only the cable connection between the TV set and the video recorder remains.

❸ Switch off the video recorder with button STANDBY and press button INSTALL.




The buttons are located behind a cover on the right side of the front of the video recorder.
The video recorder is now transmitting a test picture which the TV set should receive.

❹ Tune the TV set in the UHF range until this test picture appears. The video recorder is set to channel UHF-36 or 37 in our factory.



In order to find out how to tune to the right channel and to store this on your TV set, please consult the operating manual for your TV set.

**Note:** During subsequent playback with the video recorder, check the sound and picture quality of reception on the TV set. If required, you can improve the picture, colour and sound by adjusting the channel on the TV set.

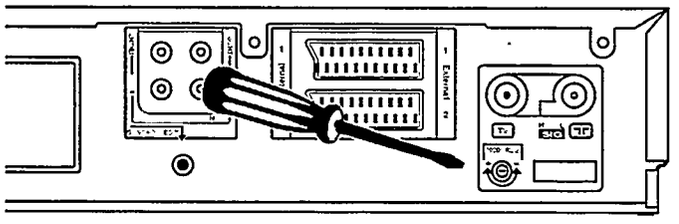
❺ Insert the aerial cable again into the aerial socket . You have now tuned the TV set to the video recorder.

**Note:** Your video recorder occupies channel UHF-36 or 37. However, it is possible that, in your reception area, this channel is already occupied by another TV channel.
In this case you will experience a reduction in picture quality on the TV set when receiving one or more TV channels. If this occurs, proceed in this way:

❻ Check if the quality of reception on all TV channels stored in the TV set is unchanged.

❼ If the picture quality of one or more TV channels has deteriorated, switch off the video recorder with button STANDBY. Check all the TV channels on the TV set once again.

❽ If interference to the picture quality only occurs when the video recorder is switched on, use a small screwdriver to turn the channel control at the rear of the video recorder by less than half a revolution:



❾ Tune the TV set once more to the video recorder (steps ❷ to ❺) until you see the test picture again.

❿ Check again all the TV channels stored on your TV set. Repeat the channel adjustment (steps ❽ and ❾) until you cannot notice any difference between the picture quality when the video recorder is on and when it is off.

⓫ Switch off the video recorder with button STANDBY.

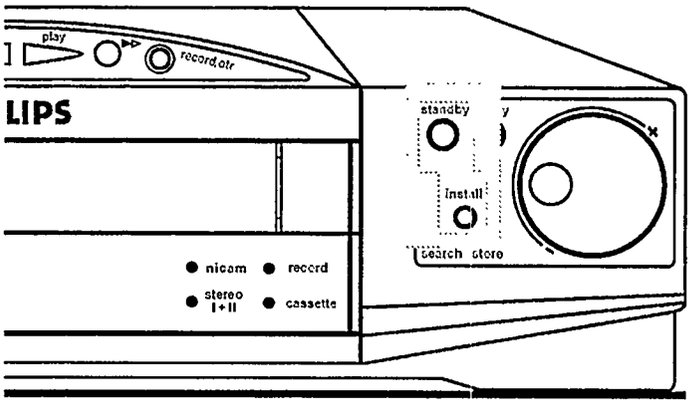
## Emergency interrupt

The video recorder and the remote control have an 'Emergency interrupt' function. You can interrupt any function by pressing button STANDBY. Only the 'child lock' function is not affected.
Whenever you have any problems while operating the video recorder, you can simply interrupt any function and start again.
You can practise using the video recorder without worrying. No matter which buttons you press, you won't damage the video recorder.

## Setting the display language and the clock

❶ Switch off the video recorder with button STANDBY and press button INSTALL.

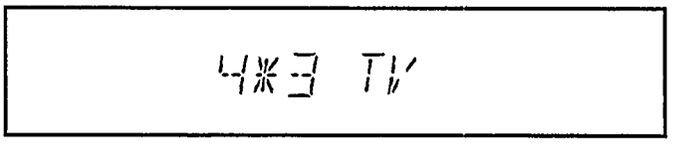
The buttons are located behind a cover on the right side of the front of the video recorder.



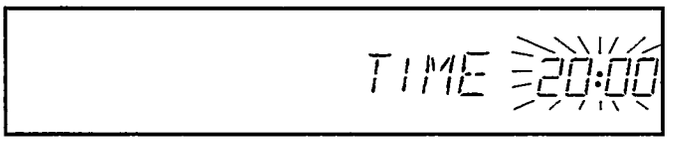

On the video recorder display appears:

❷ Press button INSTALL again. Use the rotary control to select the display language of your choice, e.g. 'ENGLISH'.

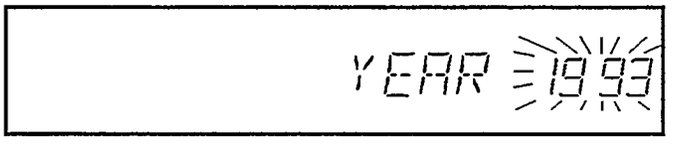
❸ Press the INSTALL button. '4:3 TV' appears on the display. If you have one of the new wide screen TV sets, then use the SELECT button (remote control) to switch over to the '16:9' format. Otherwise, leave the setting at '4:3'.



❹ Press button INSTALL again. The display will show 'TIME'. Now use the rotary control to set the current time.

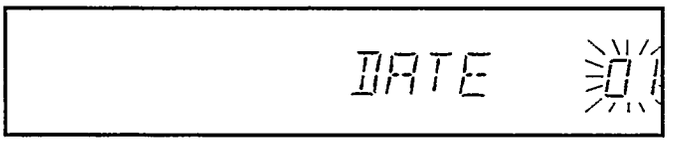



❺ Press button INSTALL again. The display will show 'YEAR'. Now set the current year.




❻ Press button INSTALL again. The display will show 'MONTH'. Now set the current month.

❼ Press button INSTALL again. The display will show 'DATE'. Set today's date.

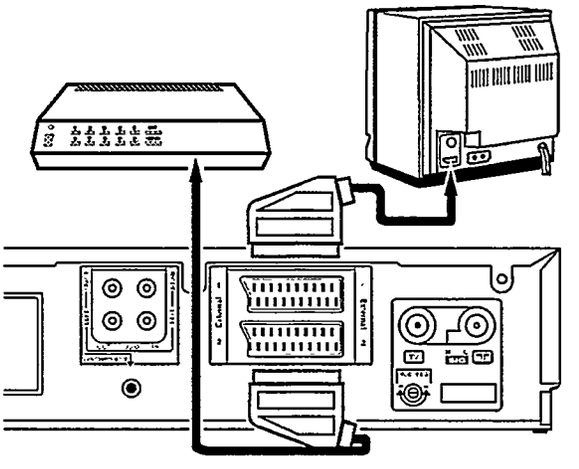



❽ Press button INSTALL again. You have now finished setting the display language and the clock.

## Connecting a decoder

Some TV broadcasters transmit encoded TV signals which you can only see with a bought or hired decoder. You can connect such a decoder (descrambler) to this video recorder.

❶ Use an AV-Euro-cable to connect the decoder to the video recorder (socket EXTERNAL 2).
You will find a description of how to store TV channels with the 'decoder' in the chapter **'Storing TV channels'**.



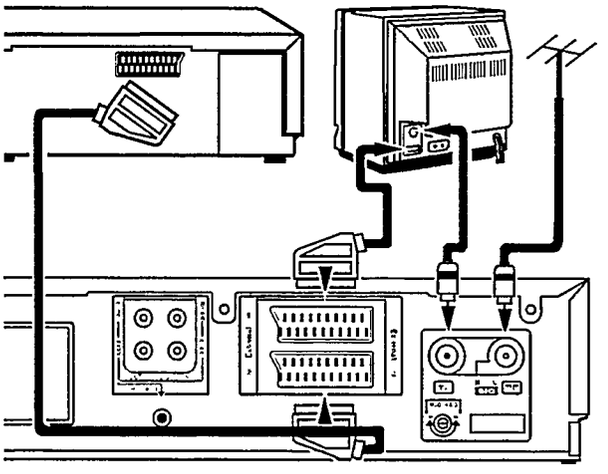
**Note:** * If you have tuned the video recorder and TV set to different TV channels, you can only use the decoder for one of them.
* Select on the video recorder a programme number that was linked to the 'DECODER' function when you were storing the TV channels. The video recorder then automatically uses the decoder.
* When you are buying the decoder, ask about the right channel number for the TV station. This will make it easier for you when you install it later.

## AV-Euro-sockets (scart-sockets)

This video recorder has two AV-Euro-sockets. You can connect a second appliance, e.g. a second video recorder, a satellite receiver or a video-CD player, to the AV-Euro-socket EXTERNAL 2. Connect the TV set to the socket EXTERNAL 1.

❶ Use an AV-Euro-cable to connect the video recorder (socket EXTERNAL 2) to the second appliance.

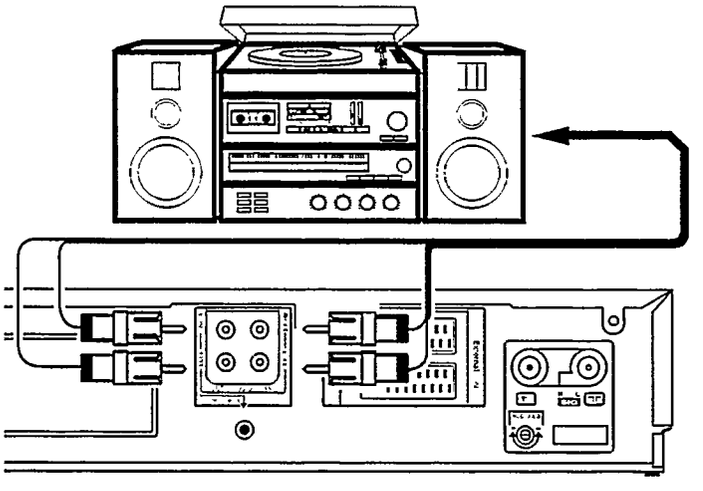
❷ Connect the TV set to the socket EXTERNAL 1.



## Connecting to Hi-Fi equipment

Use an audio cable to connect the socket AUDIO IN to the corresponding output socket on the audio amplifier. You can buy this cable from your dealer.

Connect the socket AUDIO OUT to the corresponding input socket on the audio amplifier.



# STORING TV CHANNELS 2

In Chapter 1 you connected your TV set to the video recorder, thus enabling you to play a cassette.
Your video recorder has its own receiver. Because of this, it can be used independently of the TV set.
In order to be able to record TV programmes, you first have to store each TV channel (e.g. 'BBC 1') in the video recorder. Each TV channel is transmitted on a specific 'channel number'.

So that you don't have to remember these channel numbers, assign a programme number in your video recorder to each TV channel.

For the subsequent use of 'Programming with VIDEOplus+' you also have to assign a so called 'aerial code' to each TV channel. The relevant aerial codes (3 digits) are given in a appended list.

For example: BBC 2 is assigned, **by you** :

- a channel number e.g. 'C 30'
- a programme number e.g. 'P 2' and
- an aerial code e.g. '002'.

In this instance, use the same programme numbers as used on your TV set.
You can store up to 42 TV channels.

**You have two possibilities for storing TV channels:**

• If you do not know the channel number: Please read the following section **'Automatic channel search'.**

• If you do know the channel number: Please read the section **'Direct channel storage'.**

**A general note:** If you store a TV channel with a programme number that has already been used, the original channel number stored will be deleted.

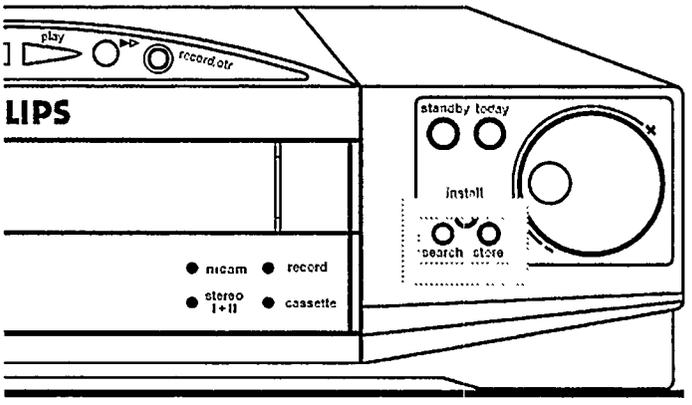
**A tip:** In rare cases, two TV channels may be on one channel number. In this case, the video recorder will not find one of these TV channels.
Then run through all the channel numbers again with the 'Automatic channel search'. **Each time** you find a TV channel, press button TRACKING ▶ on the remote control. The automatic fine tuning then begins. Whenever you find the sought TV channel, store it.

## Automatic channel search

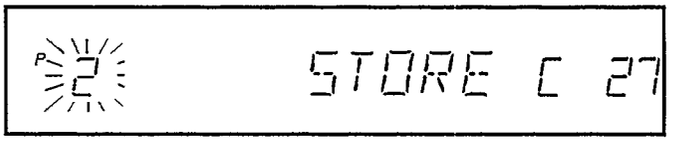
❶ Switch on the TV set and select the programme number for the video recorder.

❷ Switch on the video recorder with button STOP .

❸ Press button SEARCH .




When the automatic channel search finds a TV channel, its picture will appear on the TV screen. The display will show, e.g.:




Have you used an AV-Euro-cable to connect the video recorder to your TV set and does your TV set respond to the switch-over with button MONITOR (remote control)? If so, you can now switch to and fro between TV reception and video recorder reception. This is the easiest way for you to assign the same TV channels to the same programme numbers on both appliances.

If this is not the required TV channel, or if the picture quality is poor, press button SEARCH again. The video recorder then searches for the next TV channel.

If this TV channel is encoded and the video recorder is connected to a decoder, press button SELECT (remote control). The display will show 'DECODER'.

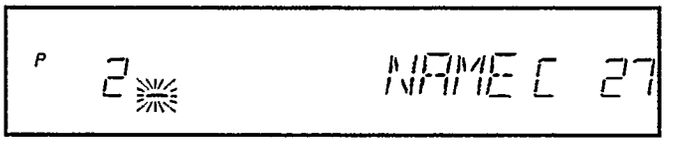
From now on, the video recorder will activate the decoder function for this TV channel (= this 'programme number').

❹ The video recorder will propose a programme number under which to store the TV channel (e.g. 'P 2' in the diagram). If you wish to store it under another programme number, use the rotary control to change it.

**Note:** The programme number proposed by the video recorder will automatically increase by one each time a TV channel is stored.

❺ If the programme number is correct, store it by pressing button STORE.

❻ Now you can give the TV channel a name (e.g. 'BBC 2') or change the present name. This TV channel name will appear in the display whenever you select this TV channel.
If you do not wish to give a name, go directly to step ❼.



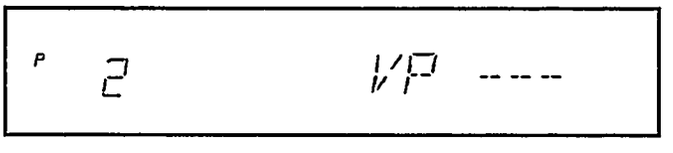

Use the **remote control** to enter the name. Proceed as follows:

* Press button + or − to select the desired numbers or letters.

* By pressing button SELECT you can choose the position where you want to place the character (up to 5 characters are possible).

* By pressing button CLEAR you can reset the chosen position to a 'blank space' or delete the contents.

❼ Press button STORE on the video recorder.




❽ For your convenience, witrh the **first four** programme numbers we have stored the correct 'aerial code' for VIDEOplus+ programming. Ignore the following sentence and store directly at step ❾.
For other programme numbers use digit buttons 0-9 to select the correct aerial code for VIDEOplus+
Clear it with button CLEAR. See appended list.

❾ Store with button STORE.

❿ Repeat steps ❸ to ❾ until you have stored all the TV channels that you want.

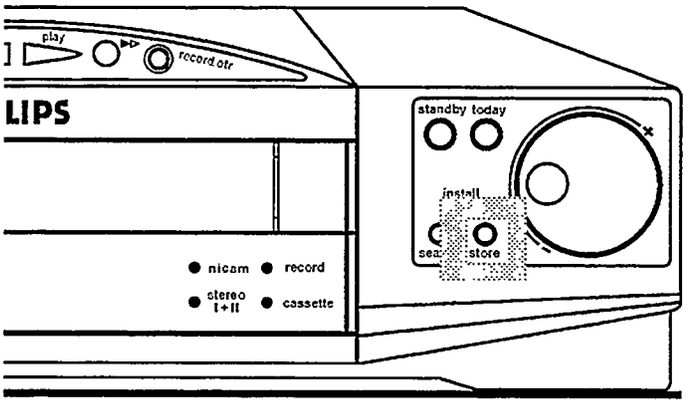
## Direct channel storage

❶ Switch on the TV set and select the programme number for the video recorder.

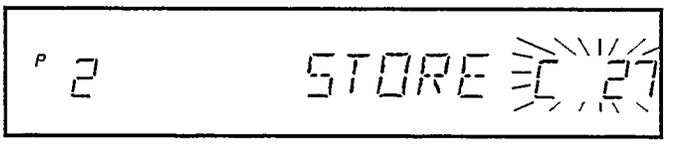
❷ Switch on the video recorder with button STOP.

❸ Use the rotary control to select the programme number under which you wish to store the TV channel.

❹ Press button STORE.




A flashing channel number will be displayed:




Use the rotary control or the digit buttons 0-9 on the remote control to select the desired channel number.

If this TV channel is encoded and the video recorder is connected to a decoder, press button SELECT (remote control). The display will show 'DECODER'.

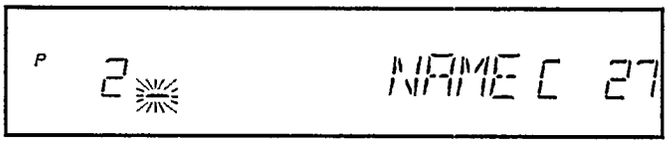
From now on, the video recorder will activate the decoder function for this TV channel (= this 'programme number').

❺ A TV channel now appears on the TV screen.

Have you used an AV-Euro-cable to connect the video recorder to the TV set and does your TV set respond to a switch-over with button MONITOR (remote control)? In this case, you can now switch to and fro between TV reception and video recorder reception. This is the easiest way for you to assign the same TV channels to the same programme numbers on both appliances.

When you have found the right TV channel, store it with button STORE.

❻ Now you can give the TV channel a name (e.g. 'BBC 2') or change the present name. This TV channel name will appear in the display whenever you select this TV channel.
If you do not wish to give a name, go directly to step ❼.



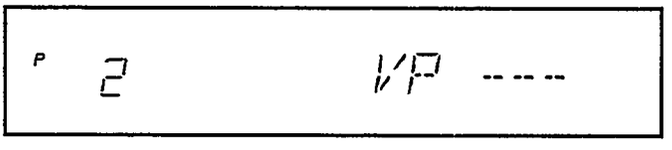

Use the **remote control** to enter the name. Proceed as follows:

* Press button + or − to select the desired numbers or letters.

* By pressing button SELECT you can choose the position where you want to place the character (up to 5 characters are possible).

* By pressing button CLEAR you can reset the chosen position to a 'blank space' or delete the contents.

❼ Press button STORE on the video recorder.




❽ For your convenience, witrh the **first four** programme numbers we have stored the correct 'aerial code' for VIDEOplus+ programming. Ignore the following sentence and store directly at step ❾.
For other programme numbers use digit buttons 0-9 to select the correct aerial code for VIDEOplus+.
Clear it with button CLEAR. See appended list.

❾ Store with button STORE.

❿ Repeat steps ❸ to ❾ until you have stored all the TV channels that you want.

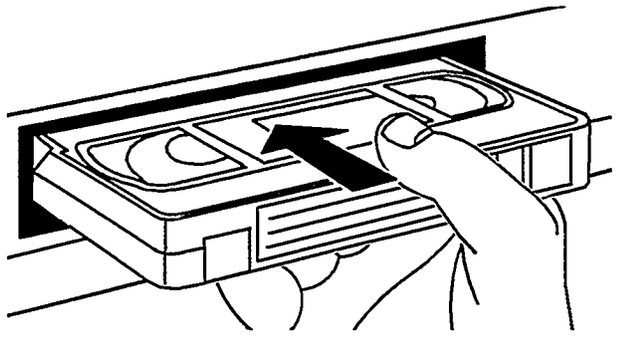
# PLAYING A RECORDED CASSETTE 3

In Chapter 1 you connected your video recorder to the TV set. Playing a cassette is now very simple.
If you want to record something immediately, first read Chapter 4.

❶ Switch on the TV set and select the programme number reserved for video playback.

Many modern TV sets **automatically switch over** to the programme number for the video recorder when a cassette is being played. However, this functions only if you have used an AV-Euro-cable to connect the video recorder to your TV set.

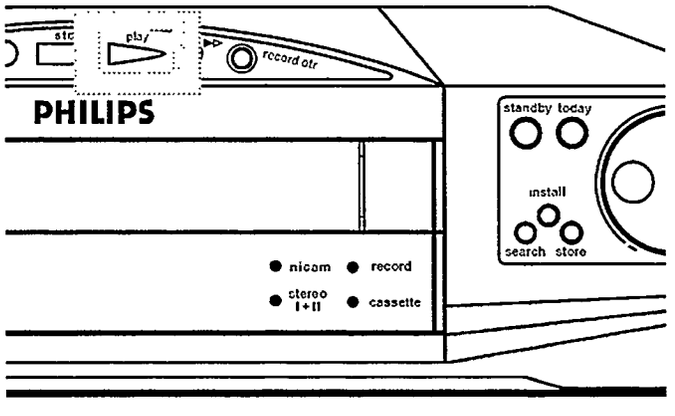
❷ Insert the cassette into the cassette slot with the title label facing towards you. The window must be facing upwards.



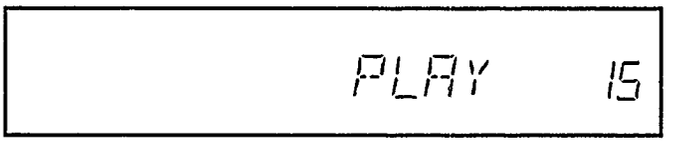
Press against the centre of the cassette until the cassette is automatically pulled inside.
Only one side of VHS cassettes can be used for recording or playback.

When you insert a cassette, the video recorder automatically switches itself on, and the indicator for 'CASSETTE' (= cassette loaded) lights up on the display.

❸ Press button PLAY.

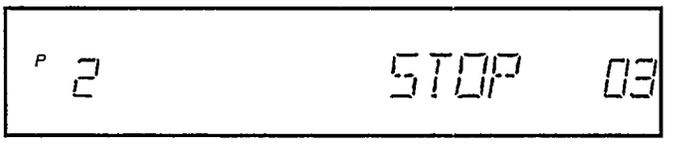



The display will show, e.g.:




You will see the recorded programme on the TV screen.

❹ If you wish to interrupt playback, press button STOP. The display will show, e.g.:




❺ If you wish to remove the cassette, press button EJECT.

**Note:** * Each time a cassette is loaded or removed the video recorder automatically cleans the video heads. In this way the best playback quality is maintained.
* When playing a long play recording, the video recorder automatically switches over to this speed. The display will show 'LP'.

## How do I remove picture interference (Auto-tracking)?

Each time a cassette is loaded, the video recorder **automatically** adjusts to the correct tracking position.

For **recordings made on another video recorder** you may be able to improve the automatic optimum position as follows:

❶ Press button ▶ on the remote control.

❷ Press button TRACKING ▶ on the remote control.

❸ Press button ▶ as soon as the optimal playback quality has been reached. This setting will remain until you remove the cassette.

## Other functions

**Fast wind and rewind:**

1. Press button STOP ■.
2. Press button ◁◀ SPEED (rewind) or SPEED ▶▷ (wind). The tape will wind or rewind at high speed.
3. Press button STOP ■ or ▶ as soon as you have reached the required position on the tape.

**Picture search (scanning):**

With this function you can choose between various speeds for searching forwards or backwards for a picture.

1. Press button ▶.
2. Now press button ◁◀ SPEED or SPEED ▶▷ several times until you have reached the desired speeds.
   The sequence of the speeds is:
   SCANNING, FAST REV, REVERSE, PLAY, FAST PLAY, SCANNING forwards.
3. Press button ▶ when you have found the desired passage.

**Note:** During scanning, the picture quality is affected and the sound is muted.
This does not mean that the function is faulty.

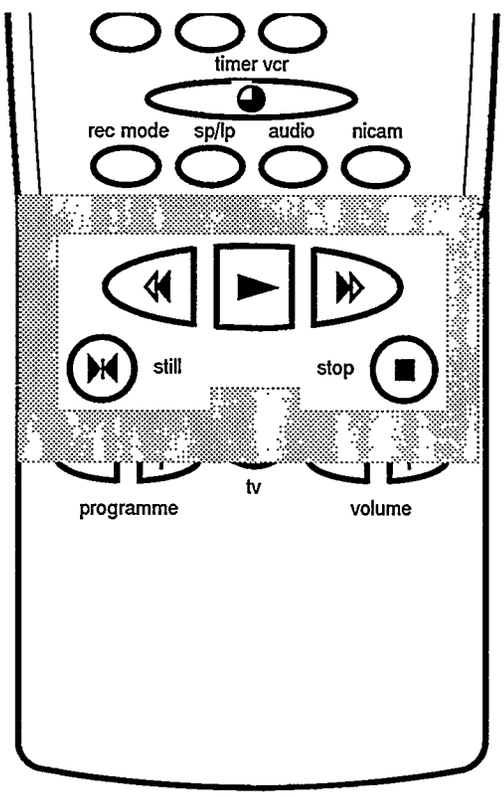
**Still picture/Super-slow motion:**

1. Press button ▶.
2. Press button ▶|◀. The picture stands still.
   Each time you press ▶|◀ again, the picture moves one step further.
   Hold down button ▶|◀. The picture will be played in super-slow motion.
3. Press button ▶ to return playback to its normal speed.

**Special note:** If the still picture vibrates vertically, keep pressing button TRACKING ▶| until the vibration is minimized.
If you pass the optimum setting, you can repeat this step with button TRACKING ▶|.
You only have to find the optimum setting once as the video recorder stores it automatically.
Please note, however, that interference may still occur with hired cassettes of poor quality.
This is not caused by your video recorder.

**Variable slow motion:**

1. Press button ▶|◀.
   The recorded TV programme is shown as a still picture.
2. By pressing button ◁◀ SPEED or SPEED ▶▷ you can change the speed of the slow-motion playback in three steps, e.g. 1/6, 1//10, 1/14 of normal playback speed.
   During slow motion the sound is muted.
3. Press button ▶ to return to the normal playback speed.

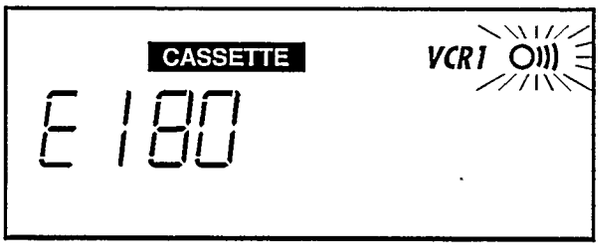


## Tape position. How do I know where I am on the tape?

It is handy to know for how long a cassette has already been playing or how long is still left.
To indicate this, your video recorder offers you three different display possibilities (in step ❹).

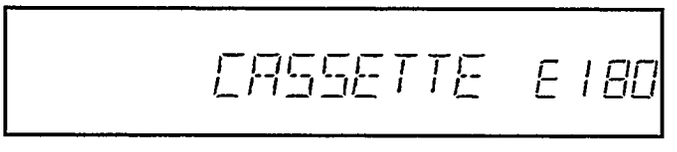
First, you must enter the tape length of the loaded cassette. This is necessary if the correct playing time is to be indicated. The tape length is given on the cassette in minutes, e.g. 'E180' corresponds to 180 minutes of playing time. You will find the length printed on the left of the front narrow edge. The actual length, however, may be a little longer than indicated.

❶ Press button CASSETTE on the remote control. A cassette length will appear in the display of the remote control, e.g.:




❷ Now press button + or − in order to select the right cassette length. The possibilities available appear in this order: E30, E60, E90, E105, E120, E150, E180, E195, E200, E210, E240, E260, E300, EC30, EC45, E30, etc.

❸ Point the remote control at the video recorder. Press button CASSETTE on the remote control.
In this way, you transmit the data to the video recorder. When it has received the data, the display will show, e.g.:

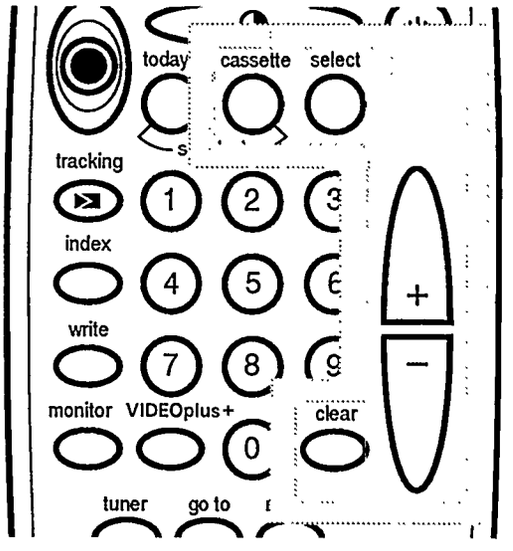



❹ Now you can use button SELECT on the remote control to select from the following **three display possibilities:**

| | | |
|---|---|---|
| elapsed playing time | : | Display (= time used) |
| remaining playing time | : | Display (= time left) |
| counter | : | Indication of tape position |

You can read this display during winding and rewinding, during recording, playback and stop.
If you want to reset the counter indication of the tape position to '0', press button CLEAR.

**Please also note:** * With newly loaded cassettes, the video recorder must first calculate the playing time. The video recorder first shows, e.g. '-:--' and waits a few seconds before displaying the correct playing time.
* The time display works accurately only with PAL/SECAM-VHS cassettes.
Cassettes made for NTSC-VHS equipment can show only the tape position and not an exact time.

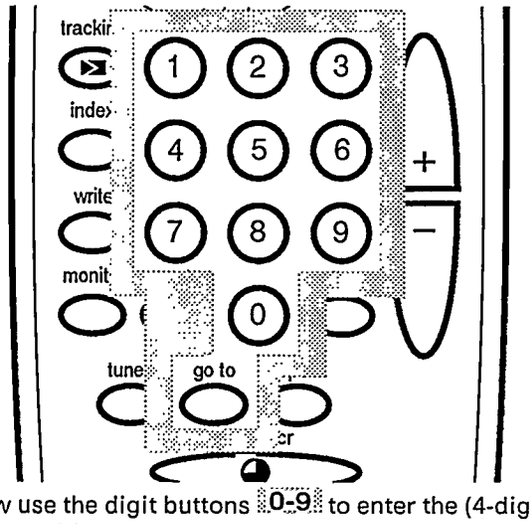


## How do I find a particular position on the tape?

Sometimes you may have recorded two or even more TV programmes on one cassette. In this case, it is worthwhile making a note of the tape position at which the recordings start and end.
So that you do not have to search for a long time, your video recorder offers you two methods for automatic searching: 'GO TO' and 'VISS'.

**Search for tape position (GO TO):**

❶ Press button GO TO on the remote control.




❷ Now use the digit buttons 0-9 to enter the (4-digit) tape position that you wish to find.

❸ You may now select the function to be started from that position, e.g.: STOP ■ , ► or RECORD / OTR .
The video recorder winds the tape to the chosen position and then continues automatically with the selected function.

**The VHS Index Search System ('VISS'):**

The video recorder writes VISS code marks on the tape every time the record button is pressed. Using the button INDEX you can search for these VISS code marks on the tape.

You cannot use the VISS function with recordings made on another videorecorder that does not have the VISS function.

**Intro-Scan:**

This VISS function will give you a survey of all the TV programmes recorded on the tape.

❶ Press button INDEX . The display will show 'INDEX -'.

❷ Press button ► . The tape will play for 10 seconds, then wind on to the next VISS code mark and play for another 10 seconds, and so on.

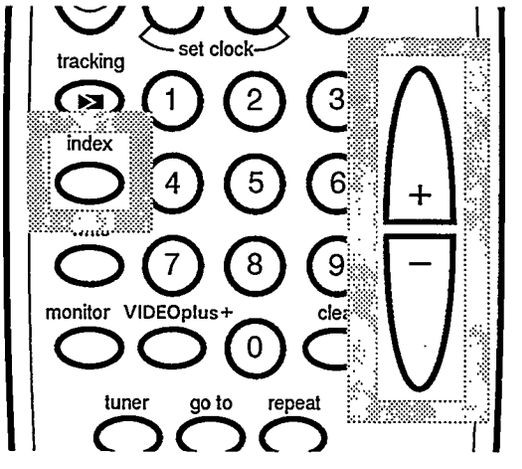
When the end of the tape is reached, the tape is rewound to the beginning.

Note: When you press any tape transport button (e.g. button ► or STOP ■ ), the video recorder interrupts the 'Intro-scan' function.

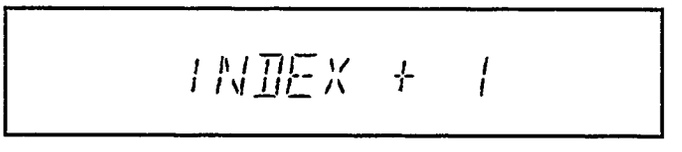
**VISS search:**

Select this function if you are looking for a particular VISS code mark.

❶ First press button INDEX (remote control), and then button + to select the following code mark, or button − to select the previous one.
If you are looking for a code mark that is not the next one, press button + or − as often as is necessary.




The display of the video recorder will show, e.g.:



❷ Select the function that is to follow after the code mark is found (e.g: 'playback').
When the code mark is found, the video recorder then begins with the function you chose.

**Note :** When you press any tape transport button (e.g. button ► or STOP ■ ), the video recorder interrupts the search.

**Setting or erasing VISS code marks manually:**

To find certain positions on the tape quickly, you can set and erase code marks by yourself.
This only works with cassettes which are not protected against recording.

If you want to **set** a code mark, proceed as follows:

❶ During playback, search for the position on the tape to be marked.

❷ At the right position, press button WRITE. A code mark will be set.

If you want to **erase** a code mark, proceed as follows:

❶ Press button INDEX. Use button + or − to select the code mark that you want to erase.

❷ Then press button CLEAR immediately. The video recorder will now search for the code mark. When it is found, the video recorder switches to the 'STILL' position. 'CLEAR INDEX' will then flash in the display.

❸ Press button CLEAR again. The video recorder returns to playback, erases the code mark and remains in the 'STOP' position.

**Note:** * Please make sure that you select the same speed (SP/LP) as was used for recording.
* If you want to erase a VISS code mark with 'Audio only recording', switch the video recorder to the 'AUDIO ONLY' mode before step ❶. You can find the description of this in the chapter 'Other recording possibilities' section 'Audio only recording'.

## Picture sharpness control

You can adjust the picture sharpness in playback in seven steps as you require.

❶ Press button ►.

❷ Press button + or −. The display will show the current setting: from '+3' to '-3' (+3 is maximum sharpness).
You can change the current setting by pressing button + or − again within five seconds.
The number '0' indicates the medium setting.

## Continuous playback

This function will permit continuous viewing (i.e. playback - rewind - playback) between any two freely chosen positions on the tape.

❶ Locate the first tape position (start). Press button REPEAT (remote control). The tape position is stored. The display will show 'REPEAT PLAY' and 'START'.

❷ Locate the second tape position (end of the playback). Press button REPEAT.
The video recorder will begin to play at the first position on the tape.

❸ You can cancel continuous playback by pressing button STOP ■.

**Note:** * If no stereo sound has been recorded on the cassette, the video recorder automatically switches over to mono sound.
* With the 'Audio Mix' function, you can play the mono sound of the normal ('linear') audio track together with the sound of the stereo audio track (see recording with 'audio dubbing').
* Stereo playback is only possible if the video recorder is connected to a stereo TV set or a Hi-Fi audio system via a connecting cable (socket 'EXTERNAL 1/2' or 'AUDIO OUT').

## NTSC playback

You can also use this video recorder to play cassettes which were recorded in the NTSC TV standard.
During playback with some types of TV sets, the pictures can vibrate vertically or roll, or there may be a loss of colour. This does not mean that your video recorder is faulty.
The sound will only be heard in mono and not in stereo.

# HOW CAN I RECORD DIRECTLY? 4

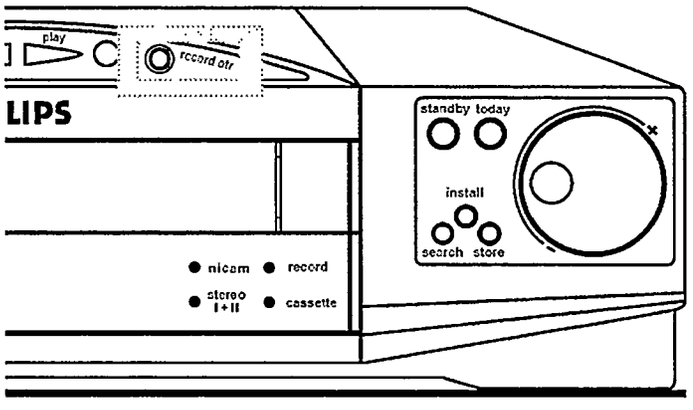
The easiest way of recording is to directly record a TV programme that is currently being transmitted.

**And this is how to go about it:**

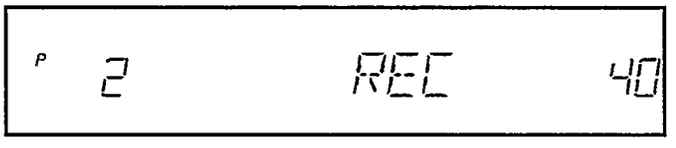
1. Insert a cassette. The video recorder will switch on automatically.

2. Use the rotary control -⊙+ or the digit buttons 0-9 (remote control) to select the programme number of the TV channel from which you wish to record.
   The programme numbers 'E1' and 'E2' are reserved for recording from external sources (via AV-Euro-sockets - 'EXTERNAL 1/2') e.g. satellite tuner.
   Press button SP/LP to select a different recording speed (SP/LP).

3. When you want to start recording, press button RECORD / OTR.




The display of the video recorder will show, e.g.:




The video recorder will record the TV programme you have chosen. The small red 'RECORD' lamp will light up on the display.

4. You can stop recording by pressing button STOP.

**Note:** If you do not want to record to the end of the cassette, press button RECORD / OTR again. The display will show the **end time of the recording** (also known as the OTR time). Each time you press button RECORD / OTR again, you can add another 30 minutes.
If you have pressed it too many times, you can return to normal recording by pressing button CLEAR (remote control).

As soon as the end time is reached, the video recorder will switch off automatically.

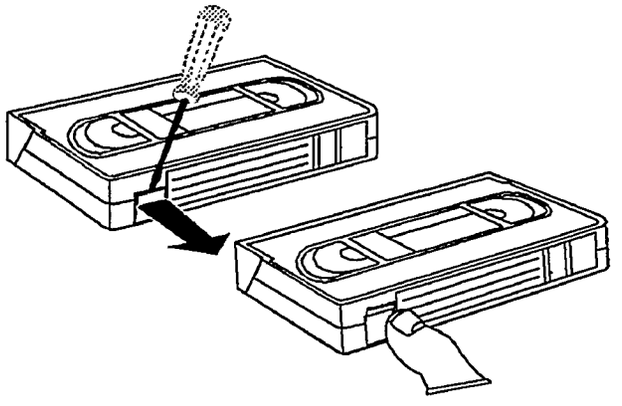
**Can I switch off the TV set during recording?**

Yes. Your video recorder has its own receiver, enabling it to record TV programmes. This means that you can use the TV set independently of the video recorder while recording. You can switch it off and on or watch another TV channel without disturbing the recording.
If you would like to check what you are currently recording, select on the TV set the programme number assigned to the video recorder.

**General notes:** * While recording one TV programme, do you wish to switch to another TV channel and record that? To do this, you have to interrupt the current recording with button STOP. Then select the new programme number and start recording the TV programme you want with button RECORD / OTR.
* If you forget to load a cassette before recording, the display will warn you by showing 'EJECT'.
* If you accidentally load a cassette with erase protection for a recording, the indication 'PROTECTED' will appear in the display.
After a few seconds the cassette will be automatically ejected.
* If the end of the cassette is reached during recording, it will be automatically ejected. The video recorder switches itself off.
* When you make a new recording on a video cassette, it will automatically record over and delete any recordings already on the cassette.

## Erase protection

So that you don't accidentally delete an important recording, you can remove the special tab (erase protection) on the back of the cassette with a screwdriver.



Later, if you no longer want the erase protection, you can seal the gap again with adhesive tape.

## Auto-assembling

You can use the auto-assembling function to link up individual recordings without any disturbing picture transition ('flickering').

❶ Press button PLAY. Search for the correct position on the tape and then stop the playback with button STOP.

❷ Now start recording as usual with button RECORD / OTR.

## Long play function

You can reduce the recording speed by half. This makes it possible to record, for example, 8 hours instead of 4 hours with a 'E240' cassette.

❶ **Before** recording, use button SP/LP to select the recording speed 'LP' (LP = Long Play).

❷ During playback, the video recorder automatically selects the correct playback speed.

## Digital stereo reception (NICAM)

When a TV programme is being transmitted in digital stereo sound, one of the following indicators appears in the display:

| | |
|---|---|
| STEREO / I+II | for digital stereo sound or two languages (bilingual) |
| NICAM | for digital sound |

Normally the NICAM stereo reception is always switched on. However, you can switch 'NICAM' off.

❶ Press button NICAM. The display will show 'NICAM ON'.

❷ You can switch 'NICAM' off by pressing button NICAM again within five seconds. The display shows 'NICAM OFF'.

**Note:** Whenever you change the programme number, 'NICAM' automatically switches itself on again.

# HOW DO I PROGRAMME A RECORDING?

5

In this chapter you will learn how to programme the video recorder. It switches itself on automatically, records the TV programme you want, and then switches itself off again automatically.

**What information is needed by the video recorder?**

For every programmed recording you must give the video recorder the following information:

* the date on which the recording is to be made
* the programme number
* the start time of the recording
* the end time of the recording

The video recorder stores all this information required for recording in what is known as a TIMER block. And, that up to one month in advance.

Your video recorder can store up to 7 of these TIMER blocks.
An eighth block is used for TODAY programming.
The video recorder allows you one minute for each entry step.
Please note that the timing of the TIMER blocks may not overlap. The video recorder must first finish one TIMER block before starting the next block.

**How to programme the video recorder**

With this video recorder you have a choice of three different kinds of programmed recording:

The simple way of programming a recording on the same day is called **'TODAY programming'.**

**'Programming with VIDEOplus+'** is as easy as dialing a telephone number.

You can enter the data that you want to programme into the remote control and then transmit this data to the video recorder. We call this possibility **'Programming on the remote control'.**

## TODAY programming

You can carry out this programming on the remote control or on the video recorder. We explain it here for the video recorder.

It is very easy to programme a recording for TODAY. You only need to enter the programme number and the start time.
Please note that only **one** TODAY programming is possible per day.
The recording will be made until the end of the loaded cassette.

❶ Press button TODAY.
The programme number currently selected will flash in the display of the video recorder:

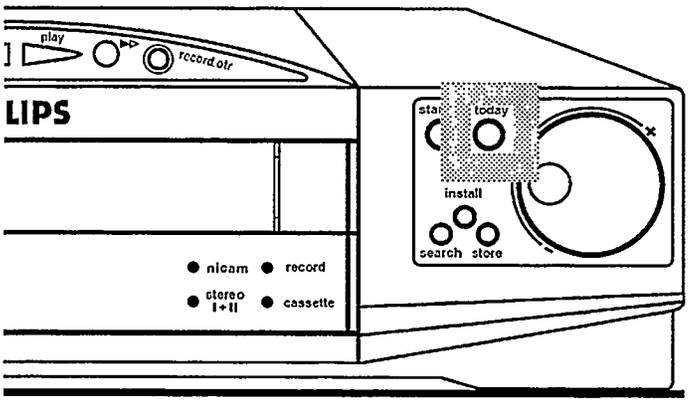
Use the rotary control ⊙+ or the digit buttons 0-9 (remote control) to select the programme number of the TV channel from which you want to record.

❷ Press button TODAY again. The start time flashes in the display:

Enter the start time.

❸ To finish, press button TODAY again.
If you only want to check the data, you can end this process with button STANDBY.

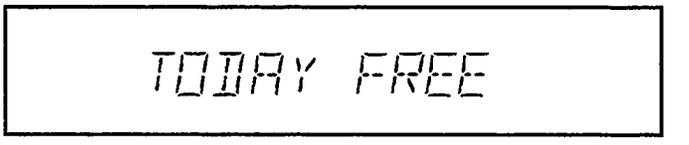
**Important note:** The TIMER only switches on the video recorder automatically if it is **switched off** at the start time of the programmed recording.
Make sure that the video recorder is always switched off with button STANDBY after use.




## Cancelling TODAY programming

❶ Press button TODAY and then button CLEAR (remote control).

To confirm this, the display shows the following for a few seconds:

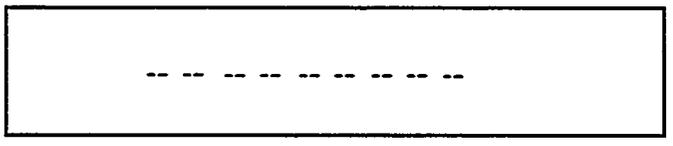



❷ You have now cancelled the programming.

## Programming with VIDEOplus+

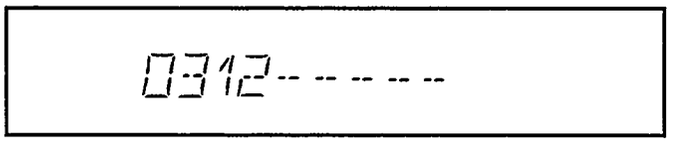
With this method the programming will be as easy as dialing a telephone number. You only have to select the 'VIDEOplus+ code' (2 to 9 digits) printed in your TV magazine next to the start time of a TV programme. Make sure, beforehand that the internal clock and the aerial codes are set.

❶ Press button VIDEO PLUS + on the remote control.




The display of the video recorder shows a number of dashes. To exit from this function press button CLEAR.

❷ Enter the 'VIDEOplus+ code' in your TV magazine with the digit buttons 0-9.
If you entered a wrong code number, clear it with button CLEAR.



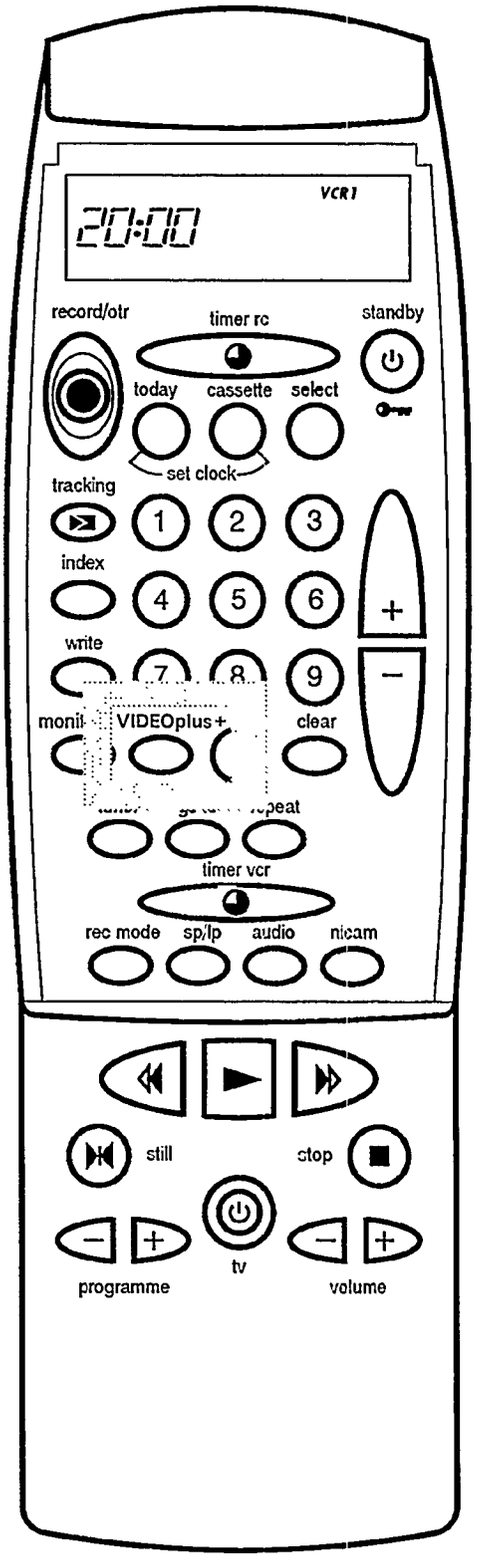

❸ If you want to repeat programming at daily or weekly intervals, push button SELECT once or twice. The display switches between an additional 'D' (=daily) or 'W' (=weekly). The daily function can only be used for recordings to be made Mondays to Fridays inclusive.

❹ Push the button VIDEO PLUS +. The programmed data is now decoded by the video recorder. If the video recorder has decoded the data correctly, the video recorder display shows the data. The time is shown in the 24 hour mode.
If the data is wrong, clear with button CLEAR.

❺ Confirm the correct data with button VIDEO PLUS +.

**Notes:** * To identify a TV channel correctly the video recorder needs the correct aerial code for 'VIDEOplus+'. If this is unknown the video recorder display shows 'VP UNKNOWN' and then the programme number 'E 2'.
You then have two possibilities:
1. To interrupt programming with button CLEAR. Then enter, as described in Chapter 2 'Storing TV channels', the correct aerial code and repeat the programming.
2. To use programme number 'E 2' to record from an external source (e.g. satellite tuner) confirm the display in step ❺ with button VIDEO PLUS +.

* If you cannot find, or do not want to use, the aerial code for certain TV channels, then you must use one of the other two programming methods.
* If 'CODE ERROR' appears in the display, the code was incorrect or incorrectly entered. Repeat the entry or end with button CLEAR.

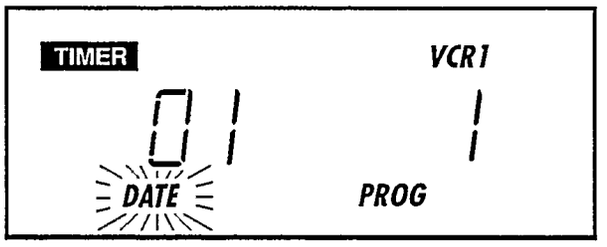


## Programming on the remote control

You can enter and store the data for **one** recording in the remote control.
The remote control display shows you all the programming steps. Use the digit buttons 0-9 or button + or − to enter the data.
With the last press of the button you transmit the programmed data to the video recorder. The data will be stored in the next free TIMER block of the video recorder.
Make sure that you have not inserted a cassette with erase protection.

❶ Press button TIMER RC.

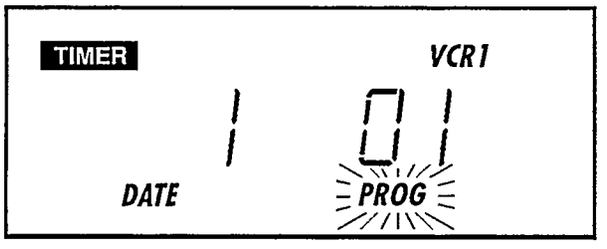
The remote control display will show, e.g.:




The data last entered will appear.
Now enter the date on which the recording is to be made.

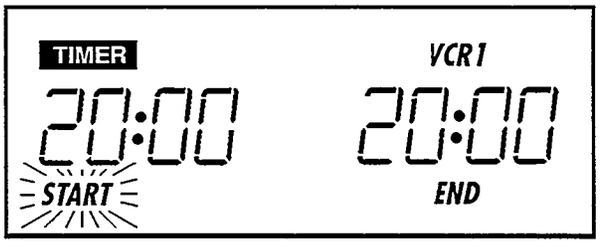
If the display also shows the indicator 'D' or 'W', press button SELECT one or more times until **only** 'DATE' is shown.

❷ Press button TIMER RC. The display will show, e.g.:



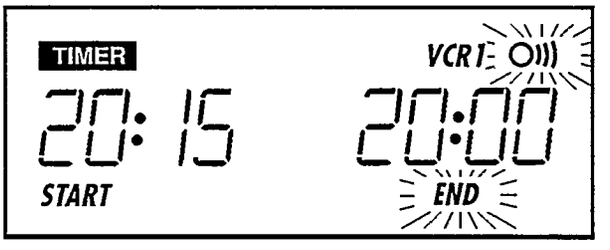

Now enter the programme number of the TV channel from which you want to record.

❸ Press button TIMER RC again. The display will show, e.g.:




Now enter the start time of the recording.

❹ Press button TIMER RC. The display will show, e.g.:




Now enter the end time of the recording.

❺ Transmit the data to the video recorder. To do this, point the remote control at the video recorder and press button TIMER RC.

The programmed data is now sent to the video recorder.
If the video recorder has correctly received the data, the video recorder display shows, e.g.:

Programming is now complete. The data has been stored in a TIMER block (e.g. 'TIMER 1').

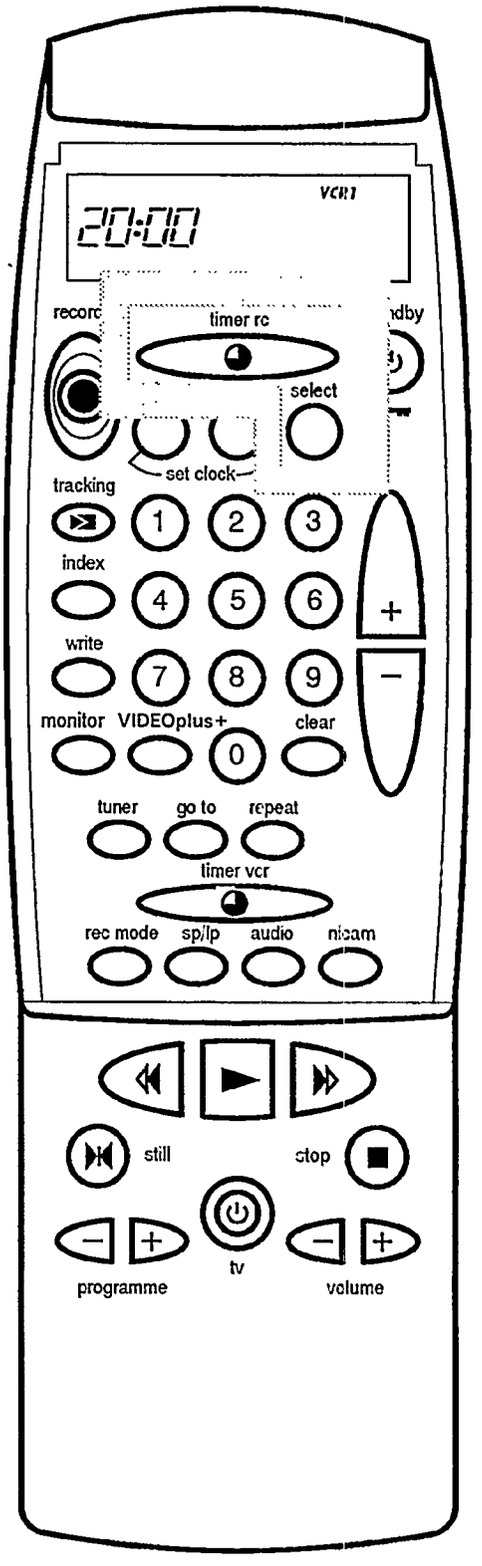
**To programme a TV programme that is on every day or every week:**

You don't have to programme a series each time afresh. When you are entering the recording date, you can programme a daily or weekly repeat at the same time. Programme the TIMER block as usual. Press button SELECT when you are entering the recording date in step ❶.

In addition to 'DATE', the display will show:

| | | |
|---|---|---|
| Press once | = | 'D' for recording every day (Daily) |
| Press twice | = | 'W' for recording every week (Weekly) |

**Some general notes:** * The TIMER switches on the video recorder automatically only if the video recorder is **switched off** at the start time of the programmed recording.
* If you don't press any button for one minute during programming, the remote control automatically interrupts the process. You then have to begin programming anew.
* The contents of the TIMER block remain stored in the remote control as long as you have transmitted the data to the video recorder. If, after entering the end time, you do not wish to transmit the data to the video recorder, press button STANDBY ⏻.
* While a programmed recording is being made, you cannot use the video recorder manually.
If you want to interrupt the programmed recording, press button STANDBY ⏻.
* If the end of the cassette is reached during a programmed recording, the video recorder automatically ejects the cassette and switches off.
* If you forget to load a cassette after programming, the word 'EJECT' appears in the display of the video recorder.
* If you insert a cassette with erase protection for the recording, the indication 'PROTECTED' appears for a few seconds in the display of the video recorder.
The cassette is then ejected.
* If you have programmed all TIMER blocks, the display of the video recorder will show 'MEMORY FULL'.
* The programmed recording is always made at the recording speed (SP/LP) that **has just been** selected on the video recorder.



## How do I record from a satellite tuner

You can also programme recordings from an external satellite tuner.

1. Connect the tuner to the socket EXTERNAL 2. Make sure that the tuner is switched on and that the correct SAT channel has been selected.
2. Use one of the three available programming methods to programme a TIMER. Use programme number 'E 2' in the programming procedure for this external recording source.

**Note:*** If you use 'VIDEOplus+ programming' for such an 'external' satellite TV programme, the video recorder automatically selects 'E 2'.
The error message 'VP UNKNOWN' can be ignored.

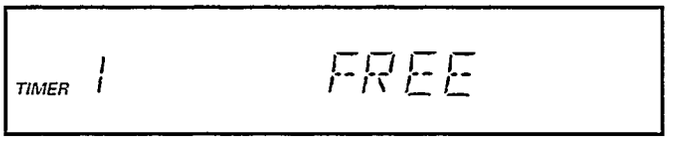
## How can I check or correct a TIMER block?

1. Press button TIMER VCR on the remote control.
2. Use button + or − to select the TIMER block that you wish to check or correct.
3. Now press button TIMER VCR several times. The recording date, the programme number, the start time and the end time will be displayed one after another on the video recorder.
   You can change all data with button + or − or with the digit buttons 0-9.
   You can select between daily/weekly/date programming with button SELECT, during step 'DATE'.
4. Finally, press button TIMER VCR again. If you have made any corrections, the data is now up to date.

**Notes:** * By following the above instructions, you can not only check any programmed TIMER block but also programme a new block.
To do this, select a **free** TIMER block. Enter the data as outlined in step 3. During the 'programme number' step, you can also use button SELECT to programme the recording mode 'SIMULCAST' or 'AUDIO ONLY'.
* Daily programming can only be used for recordings to be made Mondays to Fridays inclusive.
* Daily/weekly programming can only be used up to one week in advance.

## How can I cancel a TIMER block?

1. Press button TIMER VCR on the remote control.
2. Use button + or − to select the TIMER block that you want to cancel.
3. Press button CLEAR and the TIMER block is cancelled. The display on the video recorder will show, e.g.:



# OTHER RECORDING POSSIBILITIES 6

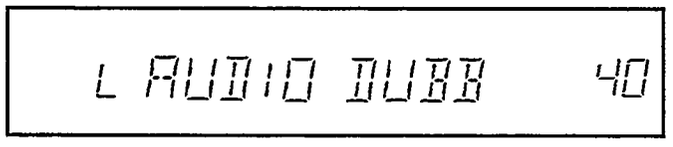
You have a choice of several recording modes. You can select them by pressing button REC.MODE (remote control). To return to the normal recording mode, switch off the function with button STANDBY or press button REC.MODE one or more times until the display shows 'STOP'.

## Audio dubbing

This function enables you to replace (dub) the sound track of a previously made recording with another sound recording (socket AUDIO IN).

Only the normal (linear) sound track is changed. The stereo sound track and the video image remain unchanged.

1. Press button PLAY to locate the position at which the audio dubbing is to start.
2. Press button STOP. The video recorder is now in the 'STOP' position.
3. Press button REC.MODE (remote control). The display on the video recorder will show:

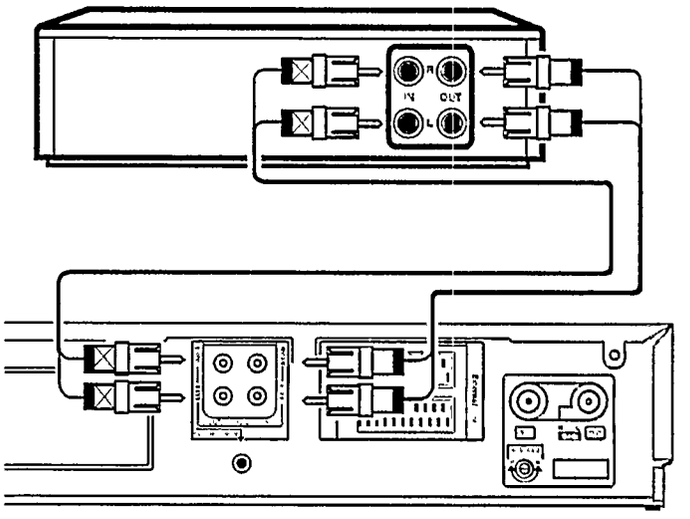



4. Press button RECORD / OTR.

The video recorder will start to record the sound input from the audio source, replacing the normal sound track. Audio output is controlled automatically.
If you want to listen to the sound recording, select the 'mono' sound track.

5. You can finish the recording with button STOP.
6. Switch off the video recorder with button STANDBY.

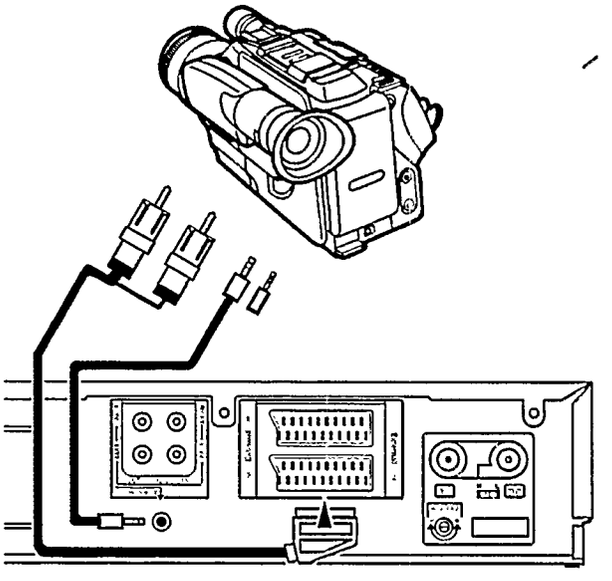
**Note:** You can mix the original Hi-Fi sound with the sound from an external audio source by connecting a mixing panel to the video recorder. The sound cannot be heard during recording.



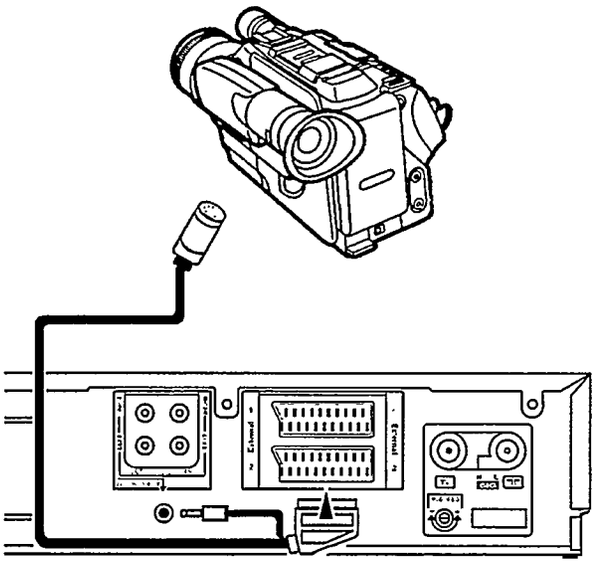

## Synchronous Editing (Synchro-Edit)

You can edit synchronously with a connection cable between an appropriately equipped camcorder and the video recorder. For example, cable SBC1085 + SBC5512 for Variant 1. Both appliances are started at the right time with the help of a synchronized pulse and the adjustable pre-roll time.
Two different operating and cabling variations are possible. Connect both appliances while they are switched off.

**Variant 1:**



**Variant 2:**



Pay attention to the operating instructions for your camcorder. The video/audio signal enters the video recorder via the socket EXTERNAL 2.

❶ Press button REC.MODE several times until 'EDIT' appears in the display.

❷ You can change the pre-roll time with the buttons + or −. The display will show, e.g. 'START 1:56' (seconds).

❸ Confirm your setting with button STOP.

❹ Locate the right tape position on the video recorder for recording. Press button STOP again.

❺ Locate the right tape position on the camcorder.

❻ Press button 'PAUSE' on the camcorder.

❼ In accordance with the above cabling, there are two ways to start editing.

**Variant 1**

❽ Start the editing process with button RECORD / OTR on the video recorder. The camcorder starts with 'PLAYBACK' and the video recorder starts synchronously with 'RECORD'.

❾ Stop the recording with button STOP on the video recorder.

❿ Switch off the video recorder with button STANDBY.

**Variant 2**

❽ Start editing, e.g. with button 'EDIT' on the camcorder. The camcorder starts with 'PLAYBACK' and the video recorder starts synchronously with 'RECORD'.

❾ Stop the recording with button 'PAUSE' on the camcorder.

❿ Switch off the video recorder with button STANDBY.

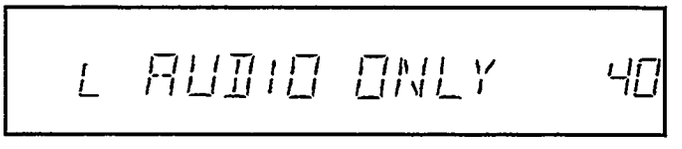
**Note:** If the start of the scene to be edited is missing, then the setting for the pre-roll time is too long. Simply set a shorter time (e.g. 1:40) as described in step ❷. If the recording starts before the scene to be edited, the setting for the pre-roll time is too short. Then you must increase the set time, e.g. to 2:10.

## 'Audio only' recording

You can also make 'Audio only' recordings (audio recordings) with this video recorder. To do this, connect the video recorder to an audio system (socket AUDIO IN).
The recording is made at half-speed. This gives you twice as much recording time as is indicated on the cassette.
'LP' will appear in the display.

❶ Insert a cassette.

❷ Press button REC.MODE until the display shows:




❸ Press button RECORD / OTR. The video recorder starts to record the sound input. Any previous (video) recording is, thereby, erased.

❹ Finish recording by pressing button STOP.

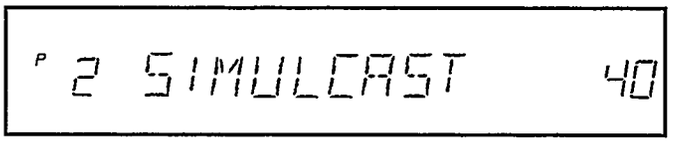
**Note:** For a programmed 'AUDIO ONLY' recording, read the note in Section 'Correcting/Cancelling a TIMER block'.

## Simulcast recording

The stereo sound of some TV programmes is broadcast simultaneously on FM radio. In order to get the best stereo sound quality you can record the picture from the TV channel and simultaneously record the stereo sound from the radio.
To do this, connect the radio to the socket AUDIO IN using an audio cable.

❶ Tune your radio and the video recorder to the desired programme.

❷ Press button REC.MODE (remote control) until the display on the video recorder shows:




❸ Press button RECORD / OTR.
The video recorder starts recording the sound from the radio and the pictures from the TV channel.

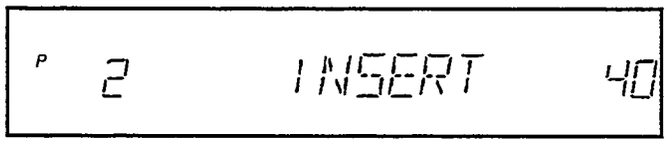
❹ Finish the recording with button STOP.

**Notes:** * Simulcast recording without a video signal is not possible.
* For a programmed simulcast recording, read the note in the Section 'Correcting/Cancelling a TIMER block'.

## Insert function

This function enables you to insert a new scene into an existing recording without a disturbing transition.

1. Locate the position at which you want to insert a scene with the button ►.
2. Press button STOP ■.
3. Press button + or – or the digit buttons 0-9 (remote control) to select the programme number of the TV channel from which you want to record.
4. Press button REC MODE (remote control) until the display of the video recorder shows:




5. Press button RECORD / OTR.
6. Finish the recording with button STOP.

**Notes:** * Inserted scenes are inserted with a diminished picture quality. During playback, inserted scenes may show a slight colour distortion and instability.
* If you wish to end the insert recording automatically, search for the desired end on the cassette.
Select the counter indication of the tape position and reset it to '0' with the button CLEAR.
Now rewind to the beginning of the recording and start recording. The video recorder will automatically end the recording when the counter reaches '0'.

## Externally controlled recording

Do you have another device, e.g. a satellite receiver, with a built-in clock through which other equipment can be controlled? With this video recorder, you can control the recording from an external device via the socket EXTERNAL 2.

1. While the video recorder is switched off, press button MONITOR for five seconds. The display will show 'RECORD PREP'. The video recorder is now ready to record.
2. The start and end of the recording is remote-controlled via socket EXTERNAL 2.
3. If you want to interrupt this function, press button STANDBY.

**Note:** * It is **not** possible to use a decoder with this function.
* The 'record prepared' function may not operate successfully when another programming function (TIMER) has also been used.

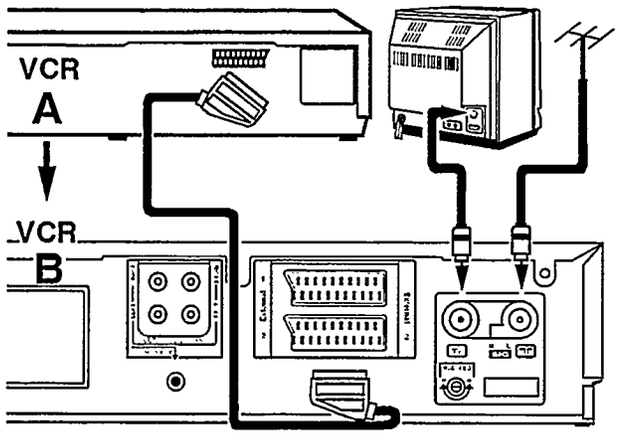
## Recording from another video recorder

With this video recorder, you can make recordings from an external source, e.g. copying onto this video recorder from a second video recorder.
To do this, you will need an AV-Euro-cable (scart-cable).

❶ Connect this video recorder to the appliance from which you want to record, e.g. a second video recorder.

To do this, insert the AV-Euro-cable on each set into the AV-Eurosocket. This is socket EXTERNAL 2 on this video recorder.

**Note:** In the following description, this video recorder is to be used for recording and will be referred to as VCR B. The other set is used for playback and will be referred to as VCR A.




❷ Insert the recorded cassette into VCR A and a blank cassette into VCR B.

❸ Now select the programme number 'E2' on VCR B. 'E2' is next to programme number 'P1' (P1 - E1 - E2). Use the rotary control -O+.

❹ To start the recording, press the recording button RECORD / OTR on VCR B and the playback button PLAY on VCR A.

❺ When you want to finish copying, press the stop button STOP on both video recorders.

# SPECIAL FUNCTIONS AND EXTRAS OF YOUR VIDEO RECORDER 7

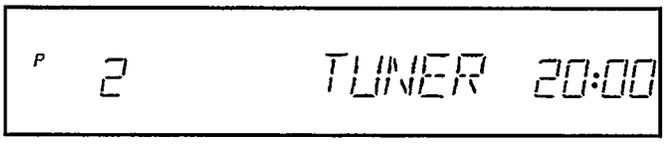
Apart from the functions that have already been described, your video recorder has other special functions and extras designed to make operating your video recorder as convenient as possible.
In this chapter you will find out more about them.

## Tuner mode. Your video recorder as an extension of your TV set

You can also use your video recorder as a TV receiver (tuner). This is handy if your TV set does not have remote control or if it has fewer channel buttons than the number of channels it could actually receive.

**This is how you go about it:**

1. Switch on the TV set. Select the programme number reserved for video playback.
2. Press button TUNER on the remote control.
   The display will show, e.g.:




3. Use the rotary control or the digit buttons 0-9 (remote control) to select the TV channel that you want to see on the TV screen.
4. Switch off the video recoder with button STANDBY if you no longer want to watch TV.

## The TV monitor function

You can press button MONITOR to switch the TV set to programme number 'AV' (= Audio/Video input). The video recorder must be switched on.
The display shows 'VCR MONITOR' for a few seconds. Press the button again to switch the monitor function off.

**An important note:** The monitor function responds **only** if the TV set is also equipped for this switch-over and you use an AV-Euro-cable for the connection to the TV set.

## Child lock

This function prevents the unauthorized operation of your video recorder. All button functions are blocked. If a button is pressed, 'LOCKED' appears for a few seconds in the display. But don't worry: Programmed recordings are made despite the child lock and cannot be interrupted.

1. Press button STANDBY on the remote control **for more than five seconds** until 'LOCKED' appears in the display. The child lock is now activated.
   Keep the remote control in a safe place.
2. When you want to switch off the child lock, press button STANDBY again **for more than five seconds.**
   After five seconds 'UNLOCKED' appears in the display.

## An extra feature of this remote control

If you have a TV set that can accept the remote control code of this remote control, you can also use the remote control for some TV functions:

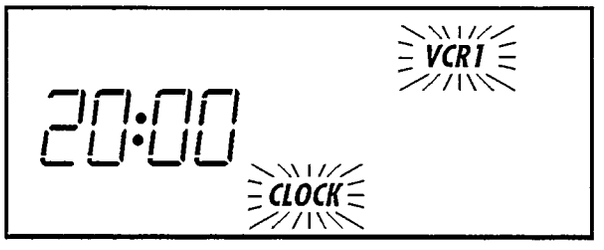
* Programme number +/-
* TV volume +/-
* Switch off TV

## VCR 1 / VCR 2 switch-over

This is an important function for you if you have two video recorders which accept the same remote control code.
You can quite easily change the remote control code for this video recorder and this remote control, so as to prevent the unintentional operation of the wrong video recorder.

❶ Switch off the video recorder with button STANDBY.
Now press button INSTALL on the video recorder.
The display of the video recorder will show the indicator for the 'TEST PICTURE'.

❷ Press SET CLOCK on the remote control (buttons TODAY and CASSETTE together). The remote control display will show, e.g.:




❸ Press button SELECT (remote control) **for more than five seconds** until 'VCR 2' appears in the display.

❹ Press SET CLOCK on the remote control.

❺ Press button STANDBY on the remote control. The video recorder is now switched over.

❻ If you want to switch the set back to 'VCR 1', simply follow the same sequence.
The remote control again shows 'VCR 1'.

## Auto-dimmer

You can choose the brightness of the display on the video recorder when it is switched off.
To do this, switch off the video recorder with button STANDBY and use button + or − on the remote control to select the brightness you require.

## Automatic switch-off

If the video recorder is not operated for several minutes during one of the following functions, the function is switched off.
This protects your cassette and prevents unnecessary power consumption.

The video recorder is:

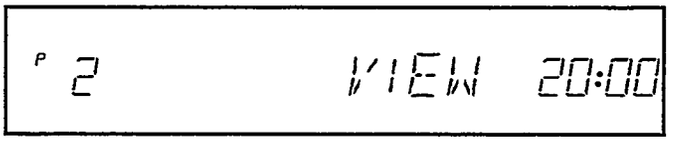
| | |
|---|---|
| in STOP | it switches off |
| in EJECT | it switches off |
| in STILL | it switches to PLAYBACK |
| in SCANNING | it switches to PLAYBACK |

## View mode

You can make use of extra functions with an appliance connected to socket EXTERNAL 2. This appliance could be another video recorder, a decoder, a satellite receiver, or a video-CD player.

When the video recorder is switched off, the AV-Euroconnection from the second appliance to the TV set is still connected.

If your second appliance transmits a control signal, for example, during playback, this video recorder recognises this and automatically switches over to 'View Mode'. You can switch the 'View Mode' on and off with button MONITOR.




**Note:** If you have selected an external AV-Eurosocket for the programme number ('E1' or 'E2'), the video recorder cannot switch over to 'View Mode'.

## The new 16:9 wide screen standard

This video recorder is suitable for wide screen TV sets.
If a wide screen '16:9' identification is received during a video recording from an external source (e.g.: MAC-decoder) via the EXTERNAL 2 socket, this identification is recorded too.

During playback, this identification is conveyed from the EXTERNAL 1 socket via an AV-Euro-cable to the TV set.
If the TV set is not equipped for playing back wide screen pictures or cannot handle the identification, switch the video recorder to the normal 4:3 format. To do this, look it up in Chapter 1, section 'Setting the display language and the clock', step ❸.

# SUMMARY OF CONTROLS AND CONNECTIONS

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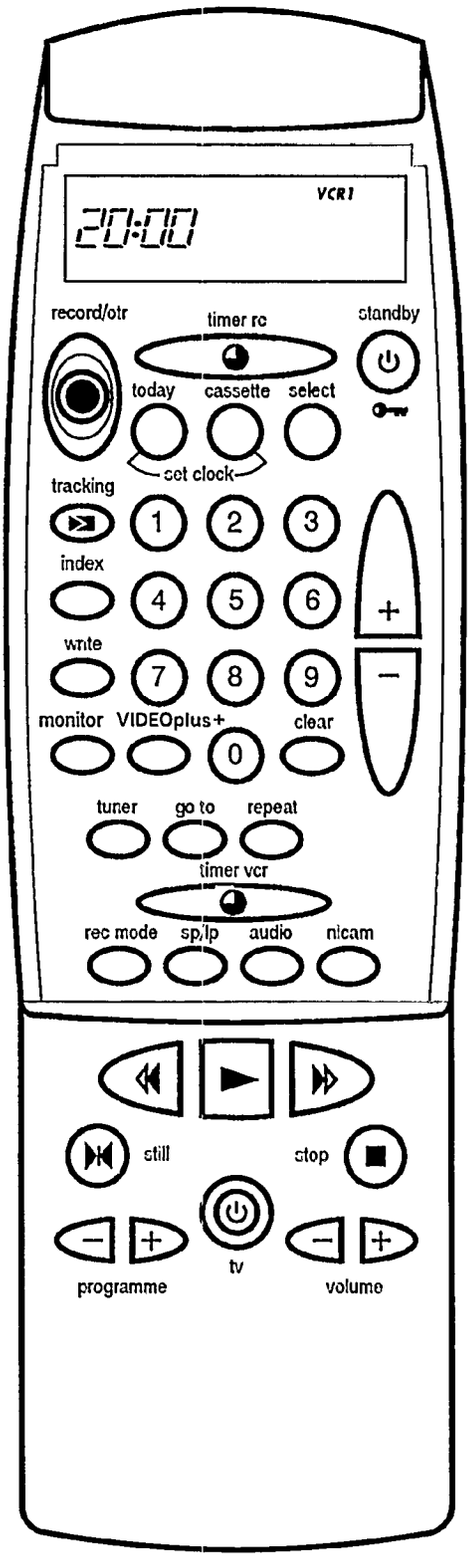
Detailed information concerning the various functions is given in the relevant sections.

Symbol on the remote control . . Function

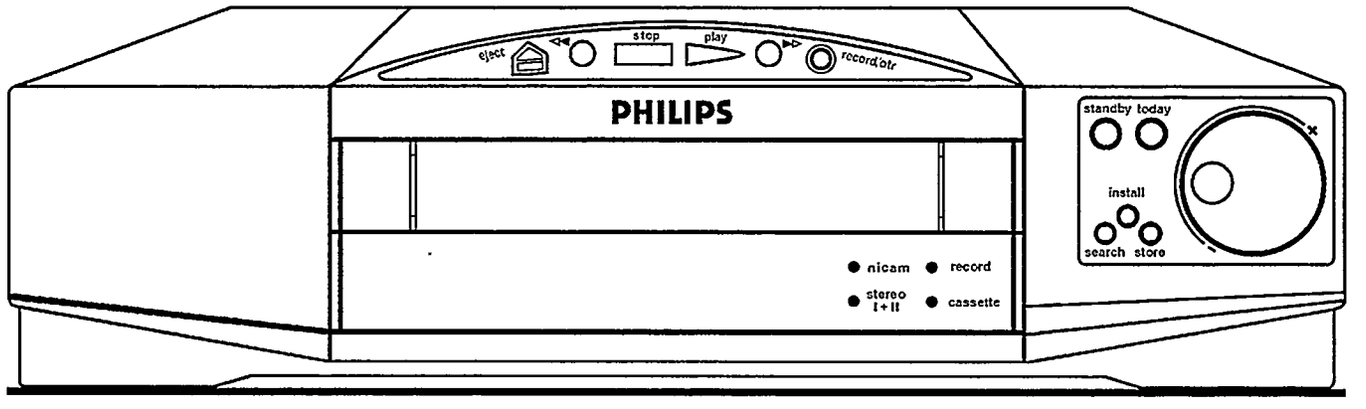
RECORD / OTR . . . . . Record
TIMER RC . . . . . TIMER programming on the remote control
STANDBY ⏻ . . . . . Switch off (standby) / Child lock
TODAY . . . . . TODAY programming
CASSETTE . . . . . Tape length selector
SELECT . . . . . Function selector
SET CLOCK . . . . . Setting clock on remote control (buttons TODAY and CASSETTE simultaneously)
TRACKING . . . . . Auto-tracking/Fine tuning
0-9 . . . . . Digit buttons
+ . . . . . Increase/Plus
– . . . . . Decrease/Minus
INDEX . . . . . VISS search function
WRITE . . . . . Set VISS marker
MONITOR . . . . . Activate the TV monitor function
VIDEO PLUS + . . . . . VIDEOplus+ programming
CLEAR . . . . . Reset/Clear
NICAM . . . . . NICAM on/off
TUNER . . . . . Tuner mode
GO TO . . . . . Search for tape position (GO TO)
TIMER VCR . . . . . Correct/cancel TIMER
REC.MODE . . . . . Recording mode
REPEAT . . . . . Continuous function
AUDIO . . . . . Sound track selection
SP/LP . . . . . Tape speed (SP/LP)
◁◁ SPEED . . . . . Rewind / Reverse scanning
► . . . . . Playback
SPEED ▷▷ . . . . . Forward wind / Forward scanning
STOP ■ . . . . . Stop
▶|◀ . . . . . Still picture



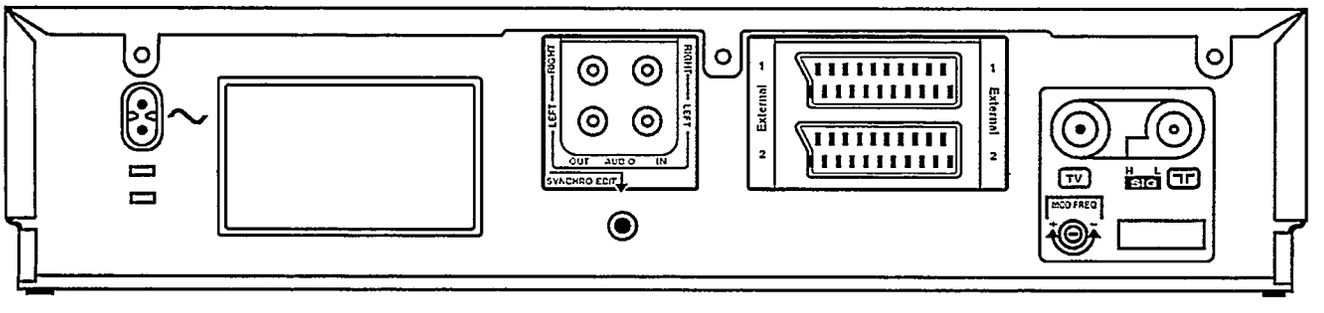

Additional TV functions (only for TV sets with the same remote control code):

TV PROGRAMME + / – . . . . TV programme +/-
TV VOLUME + / – . . . . . TV volume +/-
TV ⏻ . . . . . Switch off TV

| Symbol on the video recorder | Function |
|---|---|
| EJECT | Cassette eject |
| ◀◀ | Rewind / Reverse scanning |
| STOP | Stop |
| PLAY | Playback |
| ▶▶ | Forward wind / Forward scanning |
| RECORD / OTR | Recording |
| STANDBY | Switch off |
| TODAY | TODAY programming |
| SEARCH | Channel search |
| INSTALL | Installation |
| STORE | Channel storage |
| -⊙+ | +/- rotary control |




| Symbol on the rear side of the video recorder | Function |
|---|---|
| ~ | Mains socket |
| TV | Aerial output socket |
| ⌐¬ | Aerial input socket |
| EXTERNAL 1 | AV-Euro-socket 1 (scart) |
| EXTERNAL 2 | AV-Euro-socket 2 (scart) |
| SYNCHRO EDIT | Synchro-Edit socket |
| +⊙- | Channel control |
| AUDIO IN RIGHT | Audio input, right channel |
| AUDIO IN LEFT | Audio input, left channel |
| AUDIO OUT RIGHT | Audio output, right channel |
| AUDIO OUT LEFT | Audio output, left channel |



# BEFORE YOU CALL AN ENGINEER

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| Problem | Possible cause |
|---|---|
| The video recorder does not respond to any button being pressed | * No power supply<br>* Child lock is activated<br>* Programmed recording is being made<br>* Technical disturbance: disconnect from the mains for 30 seconds, then reconnect. If this does not have any effect, you can: 1. Disconnect from mains. 2. Reconnect to mains while holding down buttons PLAY, STANDBY and EJECT. All data stored will be reset (deleted). |
| Remote control does not work | * Batteries are exhausted<br>* Interference from fluorescent lamps or bright sunlight<br>* Child lock activated<br>* VCR 1/VCR 2 definition is wrong<br>* Technical disturbance: remove batteries for a minute and then replace them |
| No playback from the video recorder | * No recording on the cassette<br>* Cassette has reached the end<br>* The programme number for the video recorder was incorrectly selected or wrongly set<br>* The connection cable between the TV set and the video recorder has come loose<br>* 'Modulator' not in 'ON' position |
| Poor playback from the video recorder | * Use 'Auto-tracking' with hired cassettes<br>* Cassette is badly worn or of poor quality<br>* Channel control +⊙− or TV set not properly adjusted<br>* Video heads are dirty. Load/remove a cassette several times. This activates the head cleaning function |
| Recording is not possible | * TV channel is not stored or has been wrongly selected<br>* A cassette with erase protection has been loaded |
| Programmed recording does not start | * The recording data has been incorrectly programmed<br>* Clock/date has been incorrectly set<br>* A cassette with erase protection has been loaded<br>* Cassette has been wound to the end<br>* Video recorder was in 'Tuner mode' |

# TECHNICAL DATA ACCESSORIES 10

| | |
|---|---|
| Mains voltage | 220 to 240 V |
| Mains frequency | 48 to 52 Hz |
| Power consumption | 19 W typical (12 W typical in standby) |
| Wind/rewind time | 95 sec. typical for E-180 |
| Ambient temperature during operation | +10° C to +35° C |
| Relative humidity | 20% to 80% |
| Dimensions | 380 x 338 x 86 mm (incl. feet) |
| Weight | 6.5 kg approx. |
| Position for use | max. 15° inclination on all sides |
| VHS video resolution | ≥ 240 lines |
| FM audio | 20 Hz - 20KHz (-3dB) |

This video recorder complies with the EC radio interference regulations (82/499/EEC).

**List of accessories:**

* Aerial cable
* Mains cable
* Remote control and batteries
* AV-Euro cable (scart cable)

## INTERFERENCE

The Department of Trade and Industry operates a Radio Investigation Service to help TV licence holders improve reception of BBC and FTC programmes where these are being spoilt by interference.
If your dealer cannot help, ask at a Main Post Office for the booklet 'How to Improve Television and Radio Reception'.

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